

Date Searched: 4/5/2004

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1 (template or default or standard or original or pre-exist\$3) same (similar\$2 or equivalen\$3 or alike or "same" or identical\$2 or identity) same (modif\$4 or modification or new or chang\$3 or alter\$3 or alteration or adjust\$5 or sizing or resizing)

L2 1 and 716/\$.ccls.

Results: 798 hits

L3 (modif\$4 or modification or chang\$3 or alter\$3 or alteration or adjust\$5 or sizing or resizing) same ((template or similar or pre-existing or existing or standard) near5 (cell or library))

L4 signature same template

L5 716/\$.ccls. and 4

Results: 5 hits

L6 (signature or pattern or characteri\$8 or attribute) same (constrain\$3 or cost or weigh\$3 or criterion or metric or requirement) same (function\$7 or logic)

L7 (signature or pattern or characteri\$8 or attribute) same (match\$3 or identi\$6 or "same" or similar or equivalen\$2 or equal or analogous) same (exist\$3 or pre-exist\$3 or preexist\$3 or library or lut or (lookup adj table) or (look-up adj table) or database or file or standard)

L8 716/\$.ccls.

L9 6 and 7 and 8

Results: 12 hits

L10 (modif\$4 or modification or chang\$3 or alter\$3 or alteration or adjust\$5 or sizing or resizing or new) same (template or similar or pre-existing or existing or standard or original or first or analogous) same (unmatch \$3 or un-match\$3 or mismatch\$3 or mis-match\$3 or ("not" near5 (match\$3 or equal\$2 or equivalen\$2 or identi\$5 or "same")))

L11 9 and 10

Results: 23 hits

L12 5898595.uref.

Results: 19 hits

L13 5031111.uref.

Results: 47 hits

L14 10 and 716/\$.ccls. and (constrain\$3 or cost or weigh\$3 or criterion or metric or requirement) same (function\$7 or logic or description)

Results: 36 hits

US 5898595 A	USPAT Bair, Owen S. et al.	716/2
US 5031111 A	USPAT Chao, Chente et al.	716/7
US 6594808 B1	USPAT Kale, Sudhakar et al.	716/8
US 6321367 B1	USPAT Chun, Perry et al.	716/8
US 6148433 A	USPAT Chowdhary, Amit et al.	716/1
US 6473881 B1	USPAT Lehner, Valerie D. et al.	716/2
US 5394338 A	USPAT Shinohara, Hirofumi et al.	716/11
US 5140526 A	USPAT McDermith, William O. et al.	705/28

US 6611943 B2	USPAT Shibata, Ryuji et al.	716/1
US 6574779 B2	USPAT Allen, Robert J. et al.	716/1
US 6567971 B1	USPAT Banzhaf, Walter H. et al.	716/18
US 6282695 B1	USPAT Reddy, Lakshmi Narasimha et al.	716/18
US 6275973 B1	USPAT Wein, Enno	716/10
US 6066178 A	USPAT Bair, Owen S. et al.	716/2
US 6704917 B1	USPAT Curran, Michael S. et al.	716/11
US 5960184 A	USPAT Cleereman, Kevin C. et al.	716/3

US 20030177455 A1	US-PGPUB	Kaufman, Douglas et al.	716/2
US 6591407 B1	USPAT	Kaufman, Douglas et al.	716/10
US 6031980 A	USPAT	Oota, Hiroshi	716/8
US 5689432 A	USPAT	Blaauw, David T. et al.	716/18

Databases Searched: EPO, JPO, IBM TDB, Derwent

Plurals: ON

Terms Searched:

L1 (signature or pattern or characteri\$8 or attribute) same (constrain\$3 or cost or weigh\$3 or criterion or metric or requirement) same (function\$7 or logic)

L2 (signature or pattern or characteri\$8 or attribute) same (match\$3 or identi\$6 or "same" or similar or equivalen\$2 or equal or analogous) same (exist\$3 or pre-exist\$3 or preexist\$3 or library or lut or (lookup adj table) or (look-up adj table) or database or file or standard)

L3 (modif\$4 or modification or chang\$3 or alter\$3 or alteration or adjust\$5 or sizing or resizing or new) same (template or similar or pre-existing or existing or standard or original or first or analogous) same (unmatch\$3 or un-match\$3 or mismatch\$3 or mis-match\$3 or ("not" near5 (match\$3 or equal\$2 or equivalen\$2 or identi\$5 or "same")))

L4 1 and 2 and 3

Results: 7 hits

Database Searched: IEE/IEEE Xplore

Terms Searched: (signature or pattern or characteri* or attribute) and (constrain* or cost or weigh* or criterion or metric or requirement) and (function* or logic) and (match* or identi* or same or similar or equivalen* or equal or analogous) and (exist* or pre-exist* or preexist* or library or lut or (lookup <near/1> table) or (look-up <near/1> table) or database or file or standard) and (modif* or chang* or alter* or adjust* or sizing or resizing or new) and (template or similar or pre-existing or existing or standard or original or first or analogous) and (unmatch* or un-match* or mismatch* or mis-match* or ("not" <near/5> (match* or equal* or equivalen* or identi* or same)))

Results: Your search matched **5** of **1022101** documents.

Terms Searched: signature and (match* or compar* or check*) and (template or new or creat* or generat* or making or makes or made or produc*)

Results: Your search matched **657** of **1022101** documents.

Terms Searched: signature and (match* or compar* or check*) and (template or original or pre-exist* or exist*) and (new <near/5> (cell or function* or logic*))

Results: Your search matched **2** of **1022101** documents.

Terms Searched: (signature or pattern or characteri* or attribute) and (match* or compar* or check*) and (template or original or pre exist* or exist*) and (new <near/5> (cell or function* or logic*))

Results: Your search matched **38** of **1022101** documents.

Terms Searched: (template or original or pre exist* or exist*) and (new <near/5> (cell or function* or logic*))

Results: Your search matched **659** of **1022101** documents.

Terms Searched: new library

Results: Your search matched **13** of **1022101** documents

Terms Searched: template and circuit* and library

Results: Your search matched **11** of **1022101** documents

Terms Searched: (custom* or user) <near/5> library <near/3> (develop* or generat* or produc* or creat*)

Results: Your search matched **10** of **1024576** documents.

Terms Searched: ((custom* or user or new) <near/5> library) <near/15> (constrain* or criterion or cost or context)

Results: Your search matched **11** of **1024576** documents.

Date Searched: 12/27/2003

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1 (716/\$.ccls.

and ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

)) and (timing and power and area and noise and (capacit\$5 or load) and (driving or driver or driven or drivability or driveability or fanout or fan-out)

) and ((pin or pinout or ("i/o" or "input/output" or "inputs/outputs" or "i/os" or (input adj output))) near5 (plac\$4 or assign\$4)

) and @pd>20030912

Results: 2 hits

L2 ((function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification)

) and (716/\$.ccls.

and ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

)) and (timing and power and area and noise and (capacit\$5 or load) and (driving or driver or driven or drivability or driveability or fanout or fan-out)

) and ((pin or pinout or ("i/o" or "input/output" or "inputs/outputs" or "i/os" or (input adj output))) near5 (plac\$4 or assign\$4)

))and @pd>20030912

Results: 0 hit

L3 (((function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification) or hdl or (register adj transfer adj level)

) and (716/\$.ccls.

and ((replac\$5 or substitut\$4) same ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

))) and ((rang\$3 or variance or variation or tolerance or nominal or deviat\$4) same (constrain\$3 or cost or weigh \$3)) and @pd>20030912

Results: 1 hit

L4 (((function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification) or hdl or (register adj transfer adj level)

) and (716/\$.ccls.

and ((replac\$5 or substitut\$4) same ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

))) and ((rang\$3 or variance or variation or tolerance or nominal or deviat\$4) same (constrain\$3 or cost or weigh \$3)) and @pd>20030912

Results: 1 hit

L5 (((function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification) or hdl or (register adj transfer adj level)

) and (716/\$.ccls.

and ((replac\$5 or substitut\$4) same ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

))) and ((signature or template or pattern) same (match\$3 or compar\$5))and @pd>20030912

Results: 1 hit

US 20030177455 A1

US-PGPUB

Kaufman, Douglas et al. 716/2

Date Searched: 9/12/2003

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1 (716/\$.ccls.

and ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

)) and (timing and power and area and noise and (capacit\$5 or load) and (driving or driver or driven or drivability or driveability or fanout or fan-out)

) and ((pin or pinout or ("i/o" or "input/output" or "inputs/outputs" or "i/os" or (input adj output))) near5 (plac\$4 or assign\$4)

) and @pd>20030616

Results: 2 hits

L2 ((function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification)

) and ((716/\$.ccls.

and ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

)) and (timing and power and area and noise and (capacit\$5 or load) and (driving or driver or driven or drivability or driveability or fanout or fan-out)

) and ((pin or pinout or ("i/o" or "input/output" or "inputs/outputs" or "i/os" or (input adj output))) near5 (plac\$4 or assign\$4)

))and @pd>20030616

Results: 1 hit

L3 (timing and power and area and noise and (capacit\$5 or load) and (driving or driver or driven or drivability or driveability or fanout or fan-out)

) and (716/\$.ccls.

and ((replac\$5 or substitut\$4) same ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

)

)) and @pd>20030616

Results: 3 hits

L4 (((function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification) or hdl or (register adj transfer adj level)

) and (716/\$.ccls.

and ((replac\$5 or substitut\$4) same ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

)

))) and ((rang\$3 or variance or variation or tolerance or nominal or deviat\$4) same (constrain\$3 or cost or weigh \$3)) and @pd>20030616

Results: 4 hits

L5 (((function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification) or hdl or (register adj transfer adj level)

) and (716/\$.ccls.

and ((replac\$5 or substitut\$4) same ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

)

))) and ((rang\$3 or variance or variation or tolerance or nominal or deviat\$4) same (constrain\$3 or cost or weigh \$3)) and @pd>20030616

Results: 4 hits

L6 (((function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification) or hdl or (register adj transfer adj level)

) and (716/\$.ccls.

and ((replac\$5 or substitut\$4) same ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

)
)) and ((signature or template or pattern) same (match\$3 or compar\$5))and @pd>20030616
Results: 4 hits

US 6618834 B2 USPAT Takeyama, Hiroji et al. 716/2
US 6591407 B1 USPAT Kaufman, Douglas et al. 716/10

Date Searched: 4/4/2003 & 6/16/2003

Databases Searched: USPAT, USPGPUB

Plurals: ON

Terms Searched:

L1 716/\$.ccls.

L2 (logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

L3 1 and 2

Results: 1988 hits

L4 timing and power and area and noise and (capacit\$5 or load) and (driving or driver or driven or drivability or driveability or fanout or fan-out)

L5 (pin or pinout or ("i/o" or "input/output" or "inputs/outputs" or "i/os" or (input adj output))) near5 (plac\$4 or assign\$4)

L6 3 and 4 and 5

Results: 19 hits

L7 (signature or template or class or category or type)

L8 7 and 6

Results: 19 hits

L9 (rise or rising) and (fall or falling)

L10 8 and 9

Results: 5 hits

L11 (function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification)

L12 3 and 11

Results: 733 hits

L13 11 and 6

Results: 4 hits

L14 (replac\$5 or substitut\$4) same 2

L15 1 and 14

Results: 282 hits

L16 4 and 15

Results: 20 hits

L17 11 and 15

Results: 139 hits

L18 (rang\$3 or variance or variation or tolerance or nominal or deviat\$4) same (constrain\$3 or cost or weigh\$3)

L19 18 and 17

Results: 20 hits

L20 ((function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification) or hdl or (register adj transfer adj level)

) and (716/\$.ccls.

and ((replac\$5 or substitut\$4) same ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)

)

))

Results: 150

L21 18 and 20

Results: 20 hits

L22 (signature or template or pattern) same (match\$3 or compar\$5)

L23 20 and 22

Results: 21 hits

US 6523156 B2

USPAT Cirit, Mehmet A. 716/9

US 20020083398 A1

US-PGPUB Takeyama, Hiroji et al. 716/1

US 6490708 B2 USPAT Cohn, John M. et al. 716/4

US 5586046 A USPAT Feldbaumer, David et al. 716/18

US 5459673 A USPAT Carmean, Douglas et al. 716/6

US 5416718 A USPAT Yamazaki, Masami 716/5

US 6190433 B1 USPAT Van Fleet, W. Mark et al. 71/18

US 6536018 B1 USPAT Chisholm, Gregory H. et al. 716/4

US 6519609 B1 USPAT Touzet, Olivier 707/104.1

US 6470486 B1 USPAT Knapp, David 716/18

US 6086626 A USPAT Jain, Jawahar et al. 716/5

US 5764525 A USPAT Mahmood, Mossaddeq et al. 716/18

US 5726903 A USPAT Kerzman, Joseph P. et al. 716/2

Databases Searched: EPO, JPO, IBM TDB, Derwent

Plurals: ON

Terms Searched:

L1 (((replac\$5 or substitut\$4) same ((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)))) and (((function\$4 or hardware or (high adj level) or (high-level) or rtl) near3 (description or specification)))

Results: 23 hits

L2 (((logic\$4 or function\$4) near5 ("same" or equival\$4 or equal\$2 or similar\$2)))) and (timing and power and area and noise and (capacit\$5 or load) and (driv\$10 or fanout or fan-out)) and (timing and power and area and noise and (capacit\$5 or load) and (driving or driver or driven or drivability or driveability or fanout or fan-out))

Results: 2 hits

WO 200142994 A

A2, A3 DERWENT REGAN, T J

Database Searched: IEEE/IEEE Xplore

Terms Searched: (((replac* or substitut*) <near/10> ((logic* or function*) <near/5> (same or equal* or similar*)))) and (((function* or hardware or (high <near/1> level) or (high-level)) <near/3> (description or specification)) or rtl or hdl or vhdl)

Results: Your search matched [0] of [932163] documents.

Terms Searched: (replac* or substitut*) and ((logic* or function*) <near/5> (same or equal* or similar*)) and (((function* or hardware or (high <near/1> level) or (high-level)) <near/3> (description or specification)) or rtl or hdl or vhdl)

Results: Your search matched 3 of 932163 documents.

Terms Searched: ((logic* or function*) <near/5> (same or equal* or similar*)) and (((function* or hardware or (high <near/1> level) or (high-level)) <near/3> (description or specification)) or rtl or hdl or vhdl)

Results: Your search matched 55 of 932163 documents.

Dutt et al. ("Bridging high-level synthesis to RTL technology libraries",
Proceedings of the 28th ACM/IEEE Design Automation Conference, Jun. 17, 1991,
pp. 526-529).

Dutt ("Legend: a language for generic component library description", IEEE Comput. Soc. Press, 1990 International Conference on Computer Languages, Mar. 12, 1990, pp. 198-207).

Asdjodi, "ELL: Extendable Library Language", IEEE Comput. Soc. Press, Proceedings of the Twenty-Third Annual Hawaii International Conference on System Sciences, vol. 2, Jan. 2, 1990, pp. 257-266

Sait et al. ("Design of a cell library for formal high level synthesis", IEEE, Proceedings of the 7th Mediterranean Electrotechnical Conference, Apr. 12, 1994, vol. 3, pp. 1238-1241).

Foo et al. ("Databases and cell-selections algorithms for VLSI cell libraries", IEEE Comput. Soc., vol. 23, No. 2, Feb. 1990, pp. 18-30).

Rao et al. ("On clustering for maximal regularity extraction", IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, vol. 12, No. 8, Aug. 1993, pp. 1198-1208).

Veselinovic et al. ("A flexible topology selection program as part of an analog synthesis system", IEEE Comput. Soc. Press, Proceedings of the European Design and Test Conference, Mar. 6, 1995, pp. 119-123).

Kurosawa et al. ("Automation of user-specific ASIC library development", IEEE, Proceedings of the Fourth Annual IEEE International ASIC Conference and Exhibit, Sep. 23, 1991, pp. P14-7/1-5).

Tsareff et al. ("An expert system approach to parameterized module synthesis", IEEE Circuits and Devices Magazine, vol. 4, No. 1, Jan. 1988, pp. 28-36).

Royals et al. ("Creating the IC palette (ASIC design)", IEEE Comput. Soc., First international Workshop on Rapid System Prototyping: Shortening the Path from Specification to Prototype, Jun. 4, 1990, pp. 76-86).

Neubert et al. ("Top-down knowledge acquisition", IEEE Comput. Soc. Press, Proceedings of the Second International Conference on Expert Systems for Development, Mar. 28, 1994, pp. 108-113).

Rao ("An open environment for standard cell and gate array library development", IEEE Comput. Soc. Press, Proceedings of EURO ASIC '92, Jun. 1,

1992, pp. 72-77).

Rehani et al. ("A framework for building cell libraries with novel devices", IEEE, vol. 1, pp. 432-436, Jan. 1, 1994).

Katsadas et al. ("Regular module generation or standard cells: two alternative implementations of a library of functional building blocks", IFIP Transactions A (Computer Science and Technology), Jan. 1, 1993, pp. 167-181).

Lin et al. ("Delay and area optimization in standard-cell design", IEEE, 27th ACM/IEEE Design Automation Conference, Jun. 24, 1990, pp. 349-352).